## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 29 September 2005 (29.09.2005)

**PCT** 

## (10) International Publication Number WO 2005/090392 A1

(51) International Patent Classification<sup>7</sup>: A61P 37/06, C12N 15/62

C07K 14/16,

(21) International Application Number:

PCT/US2005/008634

(22) International Filing Date: 16 March 2005 (16.03.2005)

(25) Filing Language:

(26) Publication Language:

English

English

(30) Priority Data:

60/553,733 16 March 2004 (16.03.2004) US 60/649,021 31 January 2005 (31.01.2005) US

- (71) Applicant (for all designated States except US): INIST INC. [US/US]; New Jersey Institute of Technology EDC III, 211 Warren St., Suite 516, Newark, NJ 07103 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): COHEN, David, I. [US/US]; 64 Willow Avenue, Pelham, NY 10803 (US).
- (74) Agents: CULLMAN, Louis, C. et al.; Preston Gates & Ellis LLP, 1900 Main Street, Suite 600, Irvine, CA 92614-7319 (US).

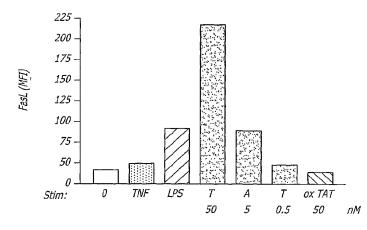
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TAT-BASED TOLEROGEN COMPOSITIONS AND METHODS OF MAKING AND USING SAME



(57) Abstract: A Tat-based tolerogen composition comprising at least one immunogenic antigen couplet to at least one human immunodeficiency virus (HIV) trans-activator of transcription (Tat) molecule wherein the immunogenic antigen can be a foreign or endogenous antigen or fragments thereof. Additionally methods of suppressing organ transplant rejection and methods of treating autoimmune diseases are provided.



